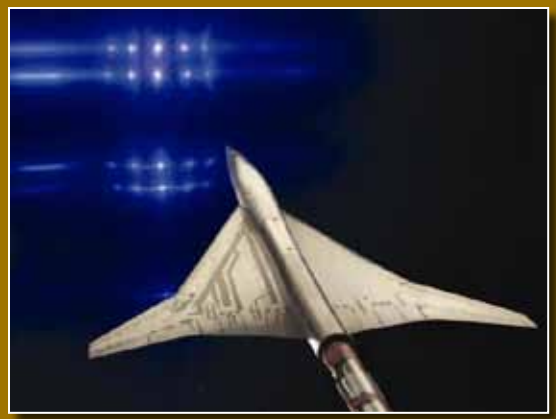
Research and technology and engineering developments encompass relevant specialty areas and management of major projects.

Areas of interest include

- Acoustics
- Advanced energy (renewable wind and solar, coal, and alternative energy)
- Advanced microwave communications
- Aeronautical and space systems analysis
- Computer systems and networks
- Electric (ion) propulsion
- Icing and cryogenic systems
- Instrumentation, controls, and electronics
- Fluids, computational fluid dynamics (CFD), and turbomachinery
- Materials and structures, including mechanical components and lubrication
- Microgravity fluid physics, combustion phenomena, and bioengineering
- Nanotechnology
- Photovoltaics, electrochemistry and physics, and thermal energy conversion
- Propulsion system aerodynamics
- Space power generation, storage, distribution, and management
- Systems engineering

Advanced Energy Research

NASA Science Mission



NASA Aeronautics Mission

Research and Technology Directorate

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PS–00437–0311

National Aeronautics and Space Administration

NASA Glenn Faculty Fellowship

NGFFP program

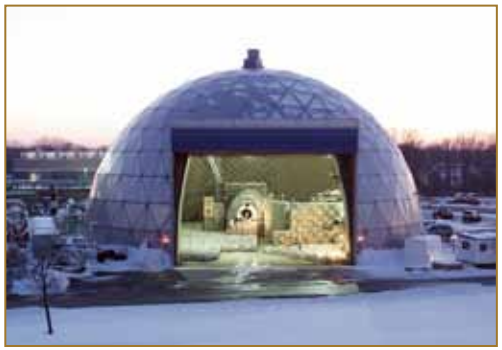
NASA Glenn Faculty Fellowship (NGFFP)

Description

Ten-week fellowships for Science, Technology, Engineering and Mathematics (STEM) faculty at accredited U.S. universities and colleges are available during the summer months at NASA Glenn Research Center, Cleveland, Ohio.

The proposed research project must be of mutual interest to the prospective fellow and the Glenn colleague, and aligned with Glenn research, technology, and engineering objectives to advance the NASA missions. The Aerospace Research and Fellowship Program is intended to provide university and college faculty with research experience to

- Enhance their professional knowledge
- Stimulate an exchange of ideas between the faculty fellows and employees of NASA Glenn
- Enrich and refresh the research and teaching at their institutions through infusion of NASA mission-related research and technology content into classroom teaching
- Contribute to the research, technology, and engineering objectives of Glenn
- Fellows work on projects to complement in-house efforts by their Glenn professional colleagues



Aeroacoustic propulsion testing

Ares 1

Objectives

- Increase the quality and quantity of research collaborations between NASA Glenn and faculty from U.S. colleges, universities, and community colleges
- Strengthen faculty capabilities to enhance U.S. STEM workforce
- Increase participation by underrepresented and underserved faculty and institutions in NASA science and technology
- Engage faculty in current research and development at NASA Glenn

Eligibility

- Must be qualified U.S. citizen
- Must be employed at accredited U.S. 2- or 4-year college or university
  - 4-year institutions—must be tenured or tenure track faculty member
  - 2-year institutions—must be full-time faculty member

Qualified underepresented minorities are encouraged to apply.

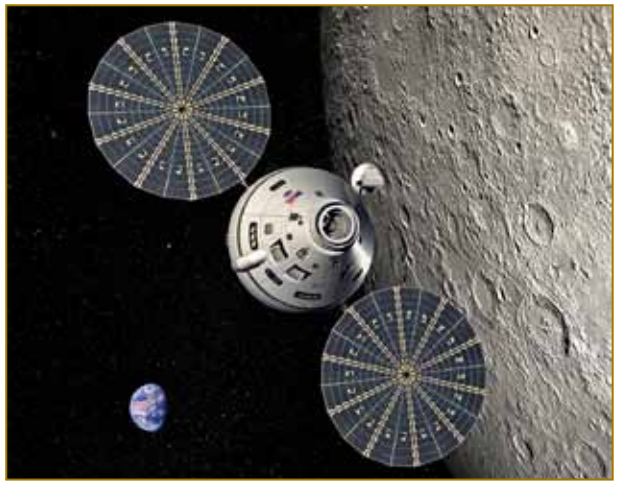
Program Duration

Fellowships are awarded for a 10-week summer research residency at Glenn.

NASA Glenn Faculty Fellowship Information

http://rt.grc.nasa.gov/university-affairs/ngffp/

Solar concentrator



Orion orbits the Moon with disc-shaped solar arrays tracking the Sun to generate electricity